



PROJECT DESCRIPTION

I. GENERAL

This project involves the modification to the existing traffic control signal at the intersection of MD 97 and Old Baltimore Rd. This modification is required because of the westbound approach restriping to create an additional lane and phase change to Old Baltimore Rd approaches. MD 97 is considered to run in a north/south direction.

II. INTERSECTION OPERATION

This intersection currently operates in a NEMA four (4) phase, semi-traffic-actuated mode. The MD 97 through movements operate concurrently. The Old Baltimore Rd approaches operate concurrently also.

The intersection is to be modified to a NEMA four (4) phase semi-traffic-actuated mode, with the MD 97 through movements operating concurrently. The Old Baltimore Rd approaches will operate as a side street split.

The existing controller and loop detector amplifiers will be utilized.

III. SPECIAL NOTE

- The Contractor is to install all equipment according to the Maryland Department of Transportation, State Highway Administration Standard Specifications for Construction and Materials, and the Special Provisions.
- The Montgomery County signal shop will perform all internal wiring and modifications to the cabinet. The Contractor will run and tag all cable into the cabinet and contact Mr. Emil Wolanin at (301) 217-2190 seventy-two (72) hours prior to requiring the wiring of the existing cabinet.

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND RETURNED TO M.C.D.O.T.. THE CONTRACTOR SHALL NOTIFY MR. EMIL WOLANIN, 48 HOURS PRIOR TO DELIVERY.

Quantity	Description
2 EA	12", three-section signal head
2 EA	8", three-section signal head

Note: All equipment and/or material not listed above will become the property of the Contractor.

PHASE CHART

1	2	3	4	5	6	7	8	9	10
(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)

Phase 2 & 6	G	G	G	G	R	R	R	R	R	R	↔
2 & 6 Change	Y	Y	Y	Y	R	R	R	R	R	R	↔
Phase 3	R	R	R	R	←G	←G	G	R	R	R	↓
3 Change	R	R	R	R	Y	Y	Y	R	R	R	↓
Phase 4	R	R	R	R	R	R	R	←G	←G	G	↑
4 Change	R	R	R	R	R	R	R	Y	Y	Y	↑
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	↕

EQUIPMENT LIST

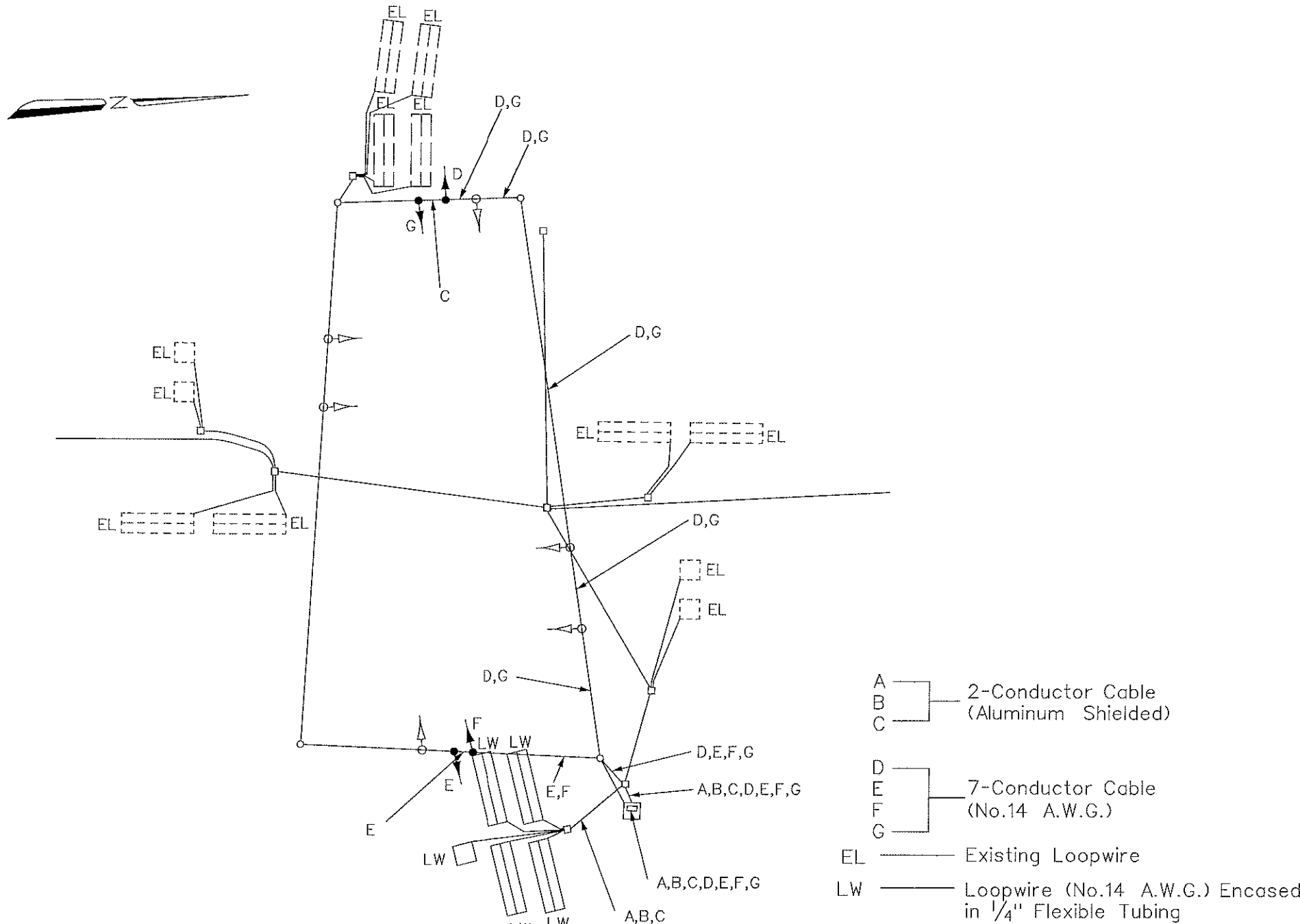
A. EQUIPMENT TO BE FURNISHED BY S.H.A. AND INSTALLED BY THE CONTRACTOR.

Quantity	Unit	Specification Section	Description
2	EA	813	30" x 36" R3-5 (L) sign - span wire mount
4	EA	814	12", one-way, four-section (R,Y,G,G) adjustable traffic signal head with proper span wire mounting hardware and tunnel visors
1	EA	813	30" x 36" R3-6A sign - span wire mount

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

Quantity	Unit	Specification Section	Description
Lump Sum	LS	108	Mobilization
Lump Sum	LS	104	Maintenance of Traffic (traffic control)
Lump Sum	LS	402	Remove and salvage existing traffic signal equipment
150	SF	104	Temporary construction signs
350	LF	815	Saw cut
150	LF	819	1/4" tether wire
975	LF	810	Loop detector wire (No. 14 A.W.G.) encased in flexible tubing
75	LF	810	2-conductor electrical cable (aluminum shielded)
740	LF	810	7-conductor electrical cable (No. 14 A.W.G.)
10	LF	805	1" liquid tight flexible non-metallic conduit for loop detector lead-in
10	LF	104	Preformed pavement marking - white, 24" wide for stop line
1	EA	104	"Combination left, thru, right-arrow pavement marking tape-white
1	EA	104	"left-arrow" pavement marking tape-white

WIRING DIAGRAM



The Traffic Group, Inc.
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Fax 410-321-8458
Job No. 940313

MDOT - STATE HIGHWAY ADMINISTRATION

Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

DRAWN BY: M.A. MEARS
DES. BY: M.A. MEARS
CHK. BY: J. R. R.

MD 97 AT
OLD BALTIMORE RD
COUNTY: MONTGOMERY
LOG MILE: 15009710.76

DATE: 03-01-96
SCALE: N/A
F.A.P. NO. N/A
S.H.A. NO. BW-867-802-312
TS/STD. NO. 3073B-G1
SHEET NO.